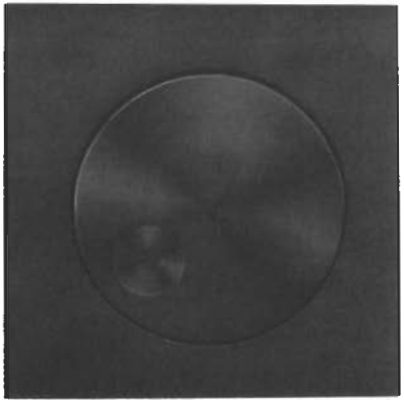
Beomaster 8000

VOLUME

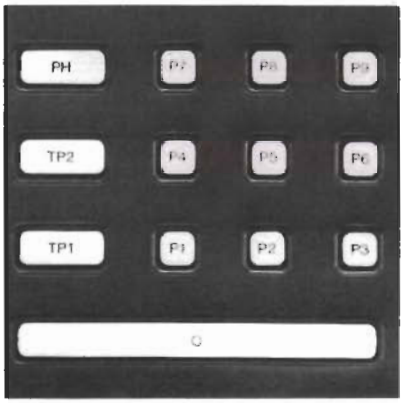
PROGRAM

FREQUENCY



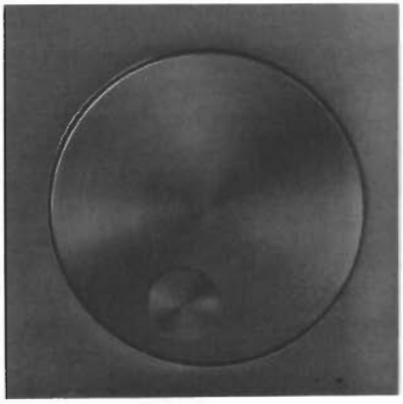
VOLUME

Adjusted with the VOLUME knob. Volume level chosen 0.0 to 6.0 is shown on the display.



PROGRAMME SELECTION

FM: Press one pushbutton, P1 to P9.
Play records: Press PH.
Beogram 8000 starts automatically.
Tape playback: Press TP1.
Beocord 8000 starts automatically.

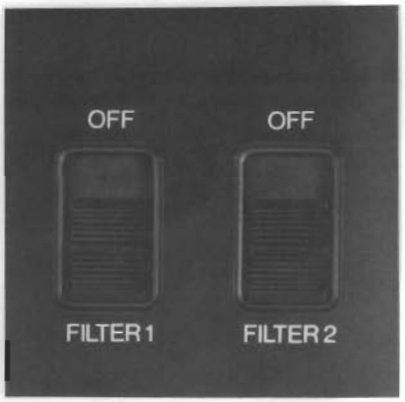


FM

Use the FREQUENCY tuning knob when you tune on other FM programmes. The display shows the frequency and a P indicates that you are receiving an incidental FM programme.

STANDBY

Beomaster 8000 is interrupted with the ⏻ pushbutton. If a Beocord 8000 and a Beogram 8000 are connected, – both will go to standby automatically; also in the event you are in the process of recording on tape.
Pressing ⏻ once more, will turn the music system on again, and at the same programme and volume as when turned off.



PRE-ADJUSTMENTS

Station indicator

This instrument has two functions:

SIGNAL – shows field strength of the station received.

M. PATH – If the indication is less than that in SIGNAL, there's a good chance that your antenna is receiving reflected signals ("ghosts").

High buildings are a common source of reflected signals.

The MPX light indicator demarkates a FM stereo programme (multiplex pilot carrier).

Bass adjustment

Deeper tones are accentuated by bringing the BASS slider-control towards +, and reduced if brought towards –.

Treble adjustment

Higher tones are accentuated by bringing the TREBLE slider control towards +, and reduced if brought towards –.

Loudness

Accurate reproduction at low volume level; deeper tones accentuated in the LOUDNESS position.

Treble filters

Two possibilities are available for reduction in the treble region:

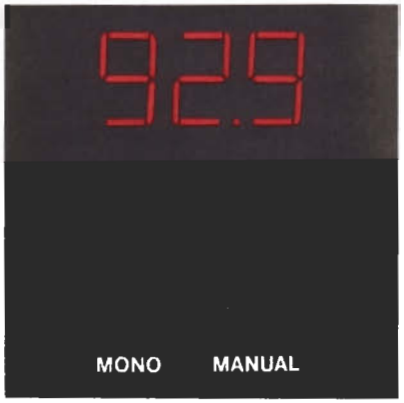
FILTER 1: For tape hiss (abrupt cut-off 7.000 Hz).

FILTER 2: For treble (soft cut-off from 10.000 Hz,).

PROGRAMMING FOR FM

Pushbuttons [P1] to [P9] can be pre-set to the FM programmes you are capable of receiving in your area.
As an example, – if you desire a station with a frequency of 92.9 MHz as programme 1:
Press [P1]. Turn the FREQUENCY tuning knob until the right-hand display shows 92.9. Press FM [STORE] and [P1]. The station is now locked to the P1 pushbutton and may thereafter be selected with this pushbutton.

The other FM programmes are pre-set in the same manner: Turn FREQUENCY to the station desired, press FM [STORE] and, for example, [P2].



Balance
BALANCE, <, is used to shift the acoustic "sound impression" towards the left and a display shows the extent of adjustment.
In a similar manner, > shifts the sound to the right.
In the mid-way setting, the display is blank.

PROGRAMMING FOR VOLUME AND BALANCE

If you wish to have the same volume level every time you turn on the Beomaster 8000, then do as follows:
Turn VOLUME to the level desired, for example, 2.8. Then press VOLUME STORE.
You may now freely turn the volume up or down when listening to a programme. If you then turn off with STANDBY, and turn on again to – let us say, P1, – volume will be at 2.8.
In similar fashion, balance may be set to a specific setting each time the set is turned on:
Press either < or > and press VOLUME STORE.

Audio filters
Actuate FILTERS pushbutton if you wish to make use of the following adjustments: bass, treble, loudness or filters 1 and 2. Actuation causes the FILTERS light indicator to activate.
An external audio filter that may be present, is not effected by the FILTERS pushbutton.

Clipping
Light indicator that shows when VOLUME has been turned up excessively and causes distortion.
The amplifier is not damaged if the indicator blinks, but sound quality suffers.

Protection
If the amplifier is overloaded for an extended period of time, the protective circuits will activate and silence the amplifier. Protection deactivates when the stereo is turned off, but goes on again a few minutes after the stereo is turned on again.

FM SEARCH

When you scan for a FM station with the tuning knob, you may choose between two methods:
AUT. TUNE. No noise between stations. A FM programme is locked on to, for a moment, before scanning resumes. This method gives a precise locking to the station.
MAN. TUNE. – For listening to the entire FM band, for both weak and stronger stations.
The indicator MANUAL will light.
If, for example, the display shows P3, you are tuned to that station to which pushbutton P3 is programmed.

STEREO-MONO

Normally, all programmes – FM, records and tape – are reproduced in stereo; MONO position allows mono reproduction.

TAPE PLAY AND RECORD
Beocord 8000

Beomaster 8000 and Beocord 8000 together will give you several possibilities for time programming. If Beocord 8000 is programmed to play back a tape at a definite point, the Beomaster 8000 will automatically set to TP1.

Recording on tape

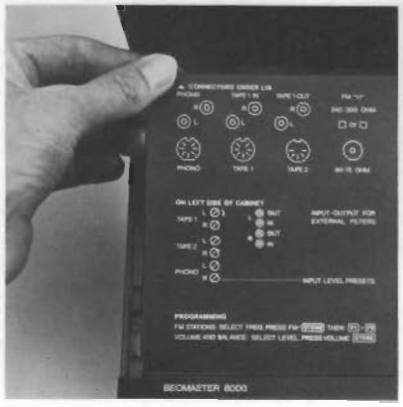
Recording can be done on both tape recorders, connected to TAPE 1 and TAPE 2, respectively; also simultaneously.
Press the programme desired: [P1] to [P9] or [PH].

Copying from tape

Dubbing from tape recorder 1 to 2:
Press [T1], operate recorder 1 (which reproduces) and recorder 2 (which records).
Dubbing from tape recorder 2 to 1:
Press [T2], operate recorder 2 (which reproduces) and recorder 1 (which records).

Monitor

This function permits you to listen to – to monitor – a tape in progress; assuming the tape recorder has monitor capability. This type of recorder is most often equipped with phono plugs.
Select a programme for recording, let us say, [P1]. Pressing [MONITOR] will allow you to monitor the tape – indicated by a blinking T on the display panel. Pressing [MONITOR] once again to listen to the programme in the usual manner.



SETTING UP

The Beomaster 8000 should be placed on a table or a cabinet shelf.
The heat-sink cooling fins on the back of the unit should be exposed to allow air circulation.

Power mains
Beomaster 8000, type 1905 is designed for 240 volt, 50–60 Hz operation.

Connections
Sockets for record player, tape recorders and FM antenna are hidden beneath a metal lid.
Pressing PROGRAMMING opens the lid and permits access for insertion of the cables.

FM antenna
A socket for both 75 and 240 ohm FM antenna systems is provided.
Your dealer will tell you which type of antenna is best suited for your particular residence.

Record player
The special 7-pin PHONO-socket is designed for the Beogram 8000.
One of the accompanying cables, PH type 6270213 is used.
Another record player, one with a low-impedance pickup, may be used instead; either with a DIN connector or phono-plugs.

Tape recorder 1
The special 7-pin TAPE 1 socket is designed for the Beocord 8000. One of the accompanying cables, TP1 type 6270222, is used.

Tape recorder 2
TAPE 2 is designed for use with an extra tape recorder.

Loudspeakers
The maximum power output for Beomaster 8000 is 150 watts RMS per channel, and the speakers should be able to handle this output.
You can obtain the optimum results in two ways: Using 4 speakers in all with 8 ohms impedance, or 2 speakers with 4 ohms.
The left speakers are connected to the L sockets; the right speakers to R.

LOUDSPEAKER SWITCH

Loudspeaker set 1 is connected when switch 1 is ON; – speaker set 2 with switch 2.
Both speaker sets can operate simultaneously, and both sets can be muted when you connect your headphones.

HEADPHONES

Stereo headphones – such as B&O type U70 – can be plugged into the front-panel socket.

FOR THE UK MARKET ONLY.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Live
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.
This set requires a **13 Amp.** fuse in the mains plug.

ADJUSTING THE VOLUME LEVEL

The ideal situation would be one where you did not need to adjust VOLUME when you changed from a FM programme to TAPE or PHONO. Volume level is adjustable with INPUT LEVEL at the left-hand side of the Beomaster 8000.

EXTERNAL AUDIO CONTROL UNIT

These four phono plugs normally are supplied with a short-circuiting clamp between IN and OUT. If you wish to connect an external unit – equalizer, tone filter, noise reduction – the clamp should be removed and cables fitted with phono plugs, inserted.

MAINTENANCE

The external surfaces of your Beomaster 8000 can normally be kept clean with a dry cloth. Avoid using alcohol as this may damage the moulded parts.
Teak and rosewood surfaces that seem grey and dry may be given a thin application of teak or rosewood oil, though not more than once or twice a year.

INTERNATIONAL GUARANTEE

This Bang & Olufsen product carries a guarantee against defects in workmanship and materials.
It is a national guarantee issued by the Bang & Olufsen Distributors for the country in which the product is purchased initially. The terms of this guarantee apply principally to the country of origin but will also be met by any authorised Bang & Olufsen dealer in the other countries in which Bang & Olufsen products are officially marketed.
In order to obtain »guarantee« service whilst in a country other than that in which the product was originally purchased, it is essential to ensure that the original Bang & Olufsen guarantee form, which you may claim issued at the purchase of the product, is completed in full and that your copy is presented to the dealer on request for service.

TECHNICAL DATA	BEOMASTER 8000
Type nr.	1901 (1905)
Amplifier section, standard for measurements (AF)	IHF A-202
Continuous power output per channel	150 watts at 4 ohms
Continuous power output per channel	100 watts at 8 ohms
Rated bandwidth	20-20,000 Hz
Total harmonic distortion	< 0.05%
Dynamic headroom	2 dB/4 ohms, 1 dB/8 ohms
IHF intermodulation	< 0.1%
Response vs frequency	
Phono (excl. filter)	20–20.000 Hz ± 0.5 dB
Tape	20–20,000 Hz +0 −0.5 dB
Wideband damping factor	> 65 dB
Input sensitivity/impedance:	
Phono	0.18 mV–0.4 mV/47kohms
Tape	23 mV–170 mV/470 kohms
Line	500 mV/10 kohms
Overload level:	
Phono	55 mV–125 mV
Tape	7 V
Signal-to-noise ratio:	
A-weighted Phono	> 75 dB
A-weighted Tape	> 77 dB
Channel separation	> 55 dB
Output:	
Tape DIN 5 pin	115 mV/100 kohms
Tape	575 mV/4.7 kohms
Line	500 mV/1 kohms
Headphones	Max. 16 V/200 ohms
Bass control at 40 Hz	± 10 dB
Treble control at 12.500 Hz	± 10dB
Filter 1 cutoff frequency	7,000 Hz/12 dB/octave
Filter 2 cutoff frequency	10,000 Hz/ 6 dB/octave

FM tuner section, standard for measurements (RF)	IHF T-200
FM range	87.5–108 MHz
FM aerial impedance	75 and 240 ohms
Usable sensitivity mono	13 dBf–1.2 μV/75 ohms
Usable sensitivity stereo	
with automatic channel blend	15 dBf–1.5 μV/75 ohms
50 dB quiting sensitivity mono	19 dBf–2.5μV/75 ohms
50 dB quiting sensitivity stereo	
with automatic channel blend	34 dBf–1 μV/75 ohms
Signal-to noise ratio at 65 dBf mono	> 76 dB
Signal-to-noise ratio at 65 dBf stereo	> 72 dB
Frequency response	20–15.000 Hz±1 dB
Distortion at 65 dBf mono	< 0.1%
Distortion at 65 dBf stereo	< 0.1%
Intermodulation distortion mono	< 0.05%
Intermodulation distortion stereo	< 0.1%
Capture ratio	< 1.8 dB
Adjacent channel selectivity	> 10 dB
Alternate channel selectivity	> 65 dB
Spurious response	> 110 dB
Image response ratio	> 86 dB
IF response ratio	> 120 dB
AM suppression	> 63 dB
Stereo channel separation	
100 – 10,000 Hz	> 40 dB
Subcarrier product rejection	> 72 dB
Other data	
Power supply	220 volts (1905: 240 volts)
Power frequency	50–60 Hz
Power consumption	10–700 watts
Dimensions W×H×D	67×15×37 cm
Weight	21 kg
Subject to change without notice.	

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